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## NOTICE OF ALLOWANCE AND FEE(S) DUE

210

7590

09/03/2008

MERCK AND CO., INC P O BOX 2000 RAHWAY, NJ 07065-0907 EXAMINER

GAMETT, DANIEL C

ART UNIT PAPER NUMBER

1647

DATE MAILED: 09/03/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,596	05/17/2006	Shun-ichi Harada	21351YP	9402

TITLE OF INVENTION: CYNOMOLGUS MONKEY DICKKOPF-4, NUCLEOTIDES ENCODING SAME, AND USES THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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MERCK AND P O BOX 2000 RAHWAY, NJ (		/2008	I he Sta add trar	ereby certify that this	ificate of Mailing of s Fee(s) Transmittal ith sufficient postage Stop ISSUE FEE O (571) 273-2885,	is being	nission deposited with the United class mail in an envelope above, or being facsimile te indicated below.
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							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	R	ATTORNEY DOCKE	T NO.	CONFIRMATION NO.
10/579,596	05/17/2006	•	Shun-ichi Harada		21351YP		9402
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nonprovisional	NO	\$1440	\$300	\$0	\$174		12/03/2008
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GAMETT,		1647	435-069100	J			
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Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	rporation or other pr	ivate grou	up entity Government
a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			<ul> <li>Payment of Fee(s): (Ple</li> <li>A check is enclosed.</li> <li>Payment by credit ca</li> <li>The Director is hereboverpayment, to Depo</li> </ul>	rd. Form PTO-2038	is attached.	) any def	
a. Applicant claim	t <b>us</b> (from status indicated s SMALL ENT1TY statu	is. See 37 CFR 1.27.	b. Applicant is no lor				
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P O BOX 2000			ART UNIT	PAPER NUMBER	
RAHWAY, NJ 07	7065-0907		1647		
			DATE MAILED: 09/03/200	8	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 157 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 157 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/579,596	HARADA ET AL.
Notice of Allowability	Examiner	Art Unit
	DANIEL C. GAMETT	1647
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. <b>THIS</b>
1. This communication is responsive to 05/16/2008.		
2. The allowed claim(s) is/are <u>1-6 and 10-15</u> .		
<ul> <li>3. Acknowledgment is made of a claim for foreign priority ur <ul> <li>a) All</li> <li>b) Some*</li> <li>c) None</li> <li>of the:</li> </ul> </li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>description of the certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>description of the certified copies of the priority documents have</li> <li>description of the certified copies of the priority documents have</li> <li>description of the certified copies of the priority documents have</li> <li>description of the certified copies of the priority documents have</li> <li>material of the priority documents have</li> <li>description of the priority documents have</li> <li>moterial of</li></ul>	e been received.  be been received in Application No cuments have been received in this	national stage application from the complying with the requirements  S AMENDMENT or NOTICE OF tion is deficient.  948) attached  office action of the back) of the complying with the front (not the back) of the complying in the submitted. Note the
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  /David S Romeo/ Primary Examiner, Art Unit 1647	5. Notice of Informal Page No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e

### **EXAMINER'S AMENDMENT**

Claims 1-6 and 10-15 are currently pending and are present for examination.

Applicants' amendments and arguments filed on 05/16/2008 have been fully considered and are deemed to be persuasive to overcome the rejections previously applied. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Patricia Chisholm on August 26, 2008.

The application has been amended as follows:

In the claims—

Claim 11: A method for determining whether an analyte is an antagonist of Dickkopf4 (Dkk-4) <u>binding</u> comprising:

- (a) providing a polypeptide comprising the extracellular domain of a Dkk-4 receptor;
- (b) contacting the polypeptide with a cynomolgus monkey Dkk-4 (cDkk-4) protein comprising the amino acid sequence as set forth in SEQ ID NO:2 and the analyte; and
- (c) determining whether binding of the cDkk-4 to the polypeptide is decreased in the presence of the analyte, wherein a decrease in the binding indicates that the analyte is <u>an antagonist</u> of cDkk-4 <u>binding antagonist</u>.

Art Unit: 1647

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel C. Gamett, PhD., whose telephone number is (571)272-1853. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Manjunath N. Rao can be reached on 571 272 0939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DCG Art Unit 1647

/David S Romeo/ Primary Examiner, Art Unit 1647